ENMUV-2

External USB Video Adapter (DVI/VGA)

User Manual

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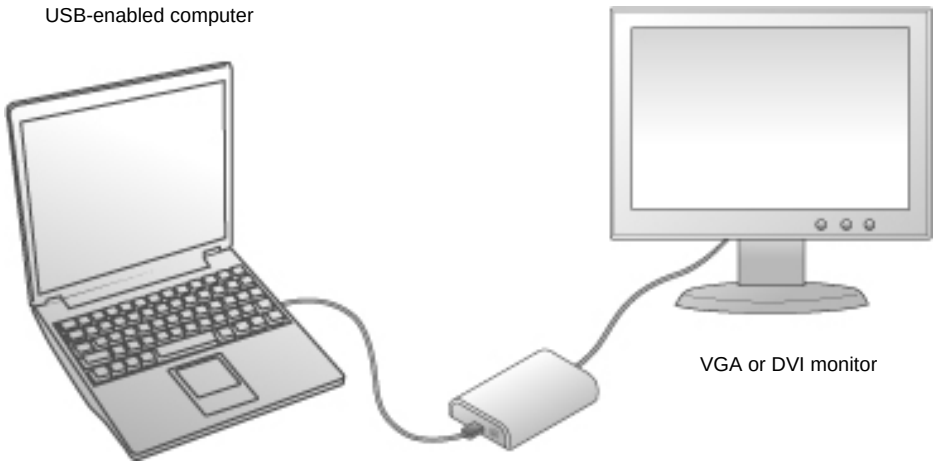
Chapter 1: Introduction

This ENMUV-2 enables you to connect one more monitor, LCD or projector to a computer with a USB 2.0 port. For desktop users adding an extra monitor via USB connection is easier than ever without having to open the computer chassis to install an internal video card. Once the installation is done, the USB-attached monitor soon wakes up. No function key hassle to swap a second monitor.

With this ENMUV-2, you can enjoy many benefits brought by an add-on monitor. The most obvious one is that you get more desktop area to have more applications visible at one time. For example, you may work on one monitor while your family watching video on the other. No more stacking windows within the confines of a single display. Or you may span an application, e.g. spreadsheets, across two sides of displays. What's more, ENMUV-2 is hot pluggable. If you are not using the extra monitor, just unplug the ENMUV-2 at any time; no reboot needed.

System performance is an important issue when using multiple monitors. Another benefit of this ENMUV-2 is that it uses little computer resource; ensuring users get quality display without comprising computer performance.



1.1 Applications

- Office workstation
  1. View your large spreadsheets across two screens with display continuity
  2. Multitask more effectively without overlapping windows
  3. Edit on one screen while surfing the Internet information on the other
- On the road
  1. Do multiple screen presentations without bringing another computer
  2. Easily provide multiple screen exhibitions in a trade show
- Graphics workstation
  1. Use second display for palettes/tools
  2. Get a panoramic view of large documents
- Editing workstation
  1. Type documents on one screen while viewing reference material on the other
  2. Compare two documents simultaneously across two screens
- Financial analysis
  1. Have one monitor per data stream
  2. View charts and live data at the same time
- Entertainment
  1. View videos/TV on one screen and reviews on the other
  2. Get additional perspectives when playing games

1.2 Features

- Easy to Install: No need to open computer cases
- Makes Multi-tasking Easier : ideal for users who work with multiple programs and windows at the same time
- Connects up to 6 Additional Monitors
- Resolution up to 1920x1080
- Cost Effective Digital Signage Solution Ready
- Add-on monitor, LCD or projector through a single USB 2.0 port
- Extend and Mirror mode support
- Video streaming is supported up to 1080p

1.3 Package Contents

Before installation, please check the items in the package. The package should contain the following items:

- 1 - ENMUV-2
- 1 - USB Cable
- 1 - DVI to VGA Adapter Connector
- 1 - Quick Installation Guide
- 1 - Driver CD (Driver Utility and User Manual)

1.4 Requirements

Minimum PC computer requirements:

- Minimum CPU: Intel Pentium®/Celeron® 1.2GHz; AMD® K6®/Athlon™/Duron™ 1.2 GHz; or higher
- 512 MB RAM
- 1x USB2.0 port for each USB Video Adapter
- 30 MB free disk space
- Windows® 7 / XP (SP2)/ 2000 (SP4), Windows Vista® (SP1).
- Super VGA (800 x 600) or higher resolution monitor

To play DVD on the ENMUV-2-connected monitor, in addition to the requirements above, the following requirements should also be met:

- With dual core CPU at 2.0 GHz or faster
- The screen resolution is set to 800x600 with 16 bit color

In addition to the following processor and RAM configurations (base on usage model):

For 1-2 monitors, business usage, productivity target.

This may not provide full frame rate DVD playback at full screen.

- 1.2 GHz Single Core CPU
- 512 MB RAM

For 3 monitors, where 1 could run DVD video while also targeting productivity and business applications.

Supports only 1 video of DVD resolution at full screen：.

- 1.8 GHz CPU
- 1 GB RAM

For 6 screen where 1 screen can run full screen DVD video：

- 1.6 GHz Core Duo
- 1 GB RAM

1.5 Specifications

Device Interface	USB 2.0
Video Output	VGA or DVI-I (Adapter included)
Connectors	**Video output:** 1. VGA HDDE 15 pin Female Connector 2. DVI HDDE 29 pin Female Connector **Host upstream link:** USB Mini-B Type Female Connector
Connectivity	Up to 6 additional Monitors (Each monitor needs an individual ENMUV-2 and USB port)
RAM	8 MB x 16 DDR Synchronous DRAM (SDRAM)
Power Mode	Bus powered
Power Consumption	430 mA
Operation System Support	Windows® 7 / XP (SP2)/ 2000 (SP4), Windows Vista® (SP1)
Supported Modes	Extended Desktop (Default), Mirrored Desktop, Primary Display

Resolutions, Refresh rate and color depth

Color Depth / Resolution	Name	Refresh rates at 16 bit color quality	Refresh rates at 32 bit color quality
640x480	VGA	60 72 75 85	60 72 75 85
800x600	SVGA	56 60 72 75 85	56 60 72 75 85
1024x768	XGA	60 70 75 85	60 70 75 85
1280x720	720p	60	60
1280x768	WXGA+	60 75 85	60 75 85
1280x800	WXGA	60	60
1280x1024	SXGA	60 75 85	60 75
1366x768	WXGA+	60	60
1400x1050	SXGA+	60 75 85	60 75 85
1600x1200	UXGA	60	60
1680x1050	WSXGA+	60	60
1920x1080	1080p	60	60

*Note that interlaced modes and reduced blanking modes are not supported.

Housing	ABS Plastic
Dimensions	84.5 (L) x 55.5 (W) x18 (H) mm
USB Cable	• Separated from the body • Type: USB A -Type Male to 5pin Mini USB B-Type Male • Length: 1M
Operating Temperature	10°C~40°C
Storage Temperature	-5°C~50°C
Operating Humidity	0%~80% RH, non-condensing

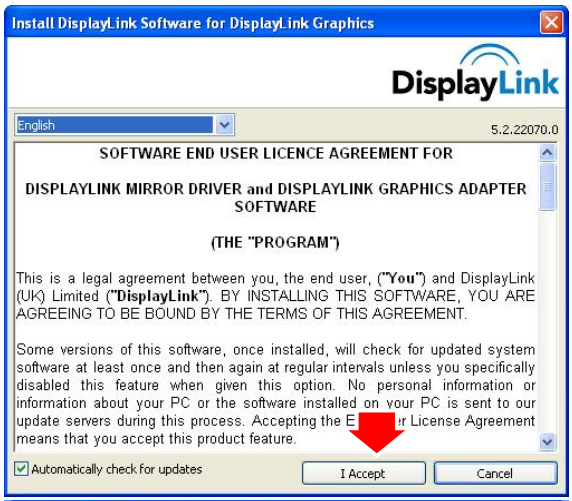
Chapter2: Installation

2.1 Installation

	Do not connect the ENMUV-2 to the USB port at this point. You will be asked to do so later on in this installation procedure.

1. Insert the provided CD into the CD-ROM drive. The setup screen should automatically appear.

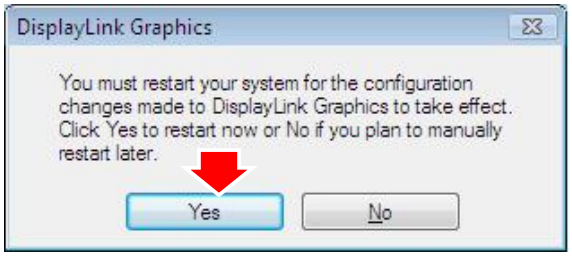
2. Click the **Driver Utility** icon.


Install DisplayLink Software for DisplayLink Graphics
DisplayLink
English
5.2.22070.0
SOFTWARE END USER LICENCE AGREEMENT FOR
DISPLAYLINK MIRROR DRIVER and DISPLAYLINK GRAPHICS ADAPTER SOFTWARE
(THE "PROGRAM")
This is a legal agreement between you, the end user, ("You") and DisplayLink (UK) Limited ("DisplayLink"). BY INSTALLING THIS SOFTWARE, YOU ARE AGREEING TO BE BOUND BY THE TERMS OF THIS AGREEMENT.
Some versions of this software, once installed, will check for updated system software at least once and then again at regular intervals unless you specifically disabled this feature when given this option. No personal information or information about your PC or the software installed on your PC is sent to our update servers during this process. Accepting the E r License Agreement means that you accept this product feature.
Automatically check for updates
I Accept
Cancel

3. Please read the License Agreement and click " **I Accept** " button.

DisplayLink Core Software
Please wait while Windows configures DisplayLink Core Software.
Your screens may temporarily go black or flash during this process.
Cancel

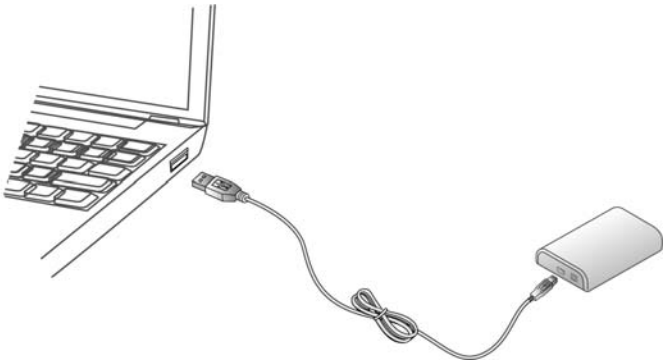
4. Please wait while Windows configures **DisplayLink Core Software**. Your screens may temporarily go black or flash during this process.


DisplayLink Graphics
You must restart your system for the configuration changes made to DisplayLink Graphics to take effect. Click Yes to restart now or No if you plan to manually restart later.
Yes
No

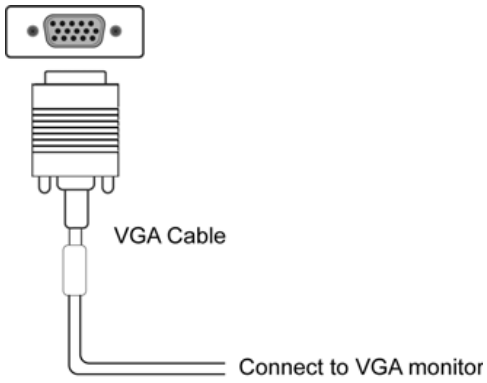
5. Click **Yes** to restart the computer. We recommend you to reboot the computer after driver installation. If the reboot prompt doesn't appear, make sure to manually reboot your computer.
6. When finished, the installation screen will disappear and you will return to your desktop

2.2 Connected to the ENMUV-2 and monitor

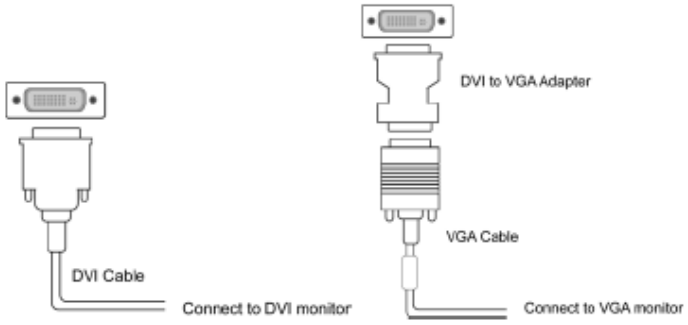
Connect the ENMUV-2 to your computer and monitor. Then power on your monitor.



For VGA model:
Use a VGA cable (not provided) to connect the VGA jack to a monitor equipped with VGA input jack.



For DVI model:
The equipped DVI-I (DVI-Integrated) connector transmits both the digital and analog signals. It can be connected to a DVI-D (digital) monitor using a DVI cable. Or, it can be connected to an analog VGA monitor using the provided DVI-I to VGA adapter and a VGA cable. After you connect the ENMUV-2, Windows will automatically complete the installation. And then an extended screen will appear on the add-on monitor.



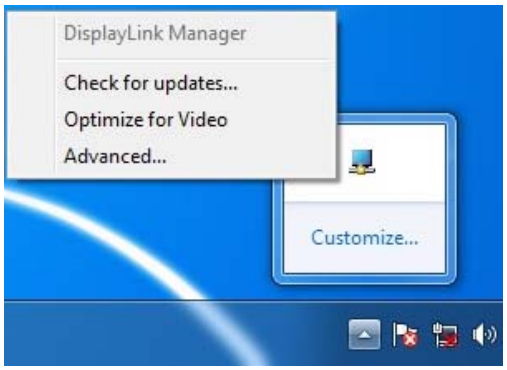
	If the add-on monitor is blank, please reboot your system again. If required, you can connect and disconnect the add-on monitor any time without disconnecting the ENMUV-2 from the USB port on your computer.

Chapter3: Getting Started

After the installation is completed, you will see the DisplayLink Manager Icon in System Tray that looks like a monitor as below. Click on the icon to bring up the menu.

- **Extend**: The screen is part of the extended desktop.
- **Set as Main Monitor**: The screen is the primary screen.
- **Notebook monitor off**: The Notebook screen is black and the DisplayLink screen is the primary screen.
- **Mirror**: The screen copies the contents of the primary screen.
- **Off**: The screen is black.

On Windows 7, the **DisplayLink Device** icon will be hided. Please click the **arrow sign** and right click the **DisplayLink Device** icon to select **Advanced**.



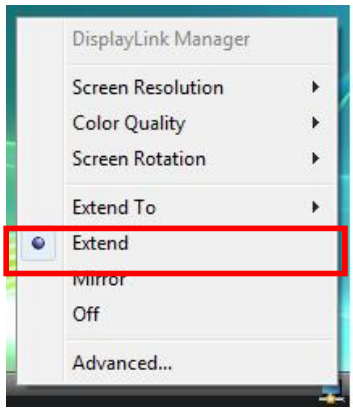
3.1 Display Modes

There is several ways you can utilize the monitor attached on ENMUV-2. The add-on monitor can be configured to use either "mirror mode", "extended mode" or be the primary display as described in this section.

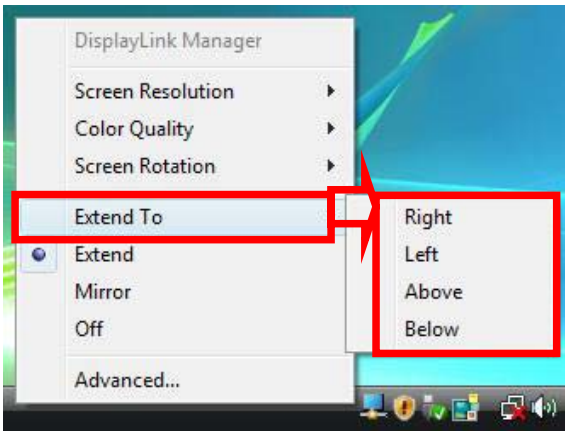
3.1.1 Extend Mode (Default)

Extended mode is the default setting. The add-on monitor can be configured to use either "mirror mode", "extended mode" or be the primary display. This mode allows you to perform multiple tasks more effectively without overlapping windows.

- Easy Setting

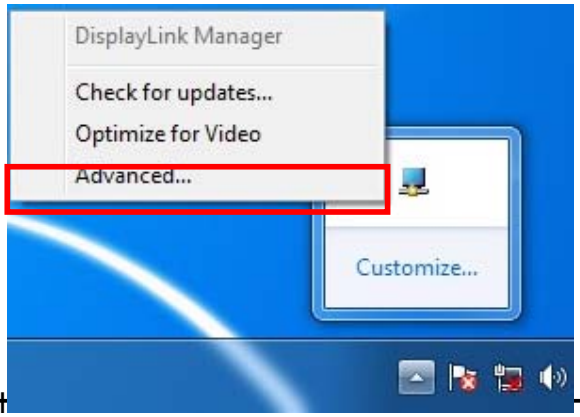


1. Click on the **DisplayLink Device** icon and select **Extend**.

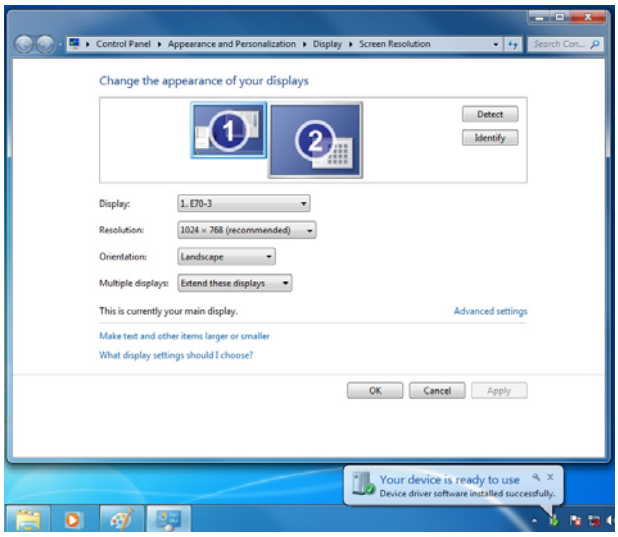


2. Select **Extend to** and then you can choose the add-on monitor position **Right, Left, Above, Below**.

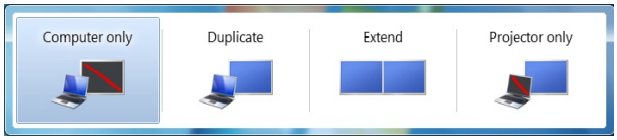
Windows® 7:



1. Click the **arrow sign** and right click the **DisplayLink Device** icon to select **Advanced**.



2. You can change Display Properties of the add-on monitor here.



3. Use **Windows Key+P** to display a menu (and cycle through it) to choose **Extend**.

- Manual Setting

  Follow these steps to use or restore extended mode:

  1. Position the mouse anywhere on your computer desktop, right-click and select

     Windows 7**:** Choose **Screen Resolution**

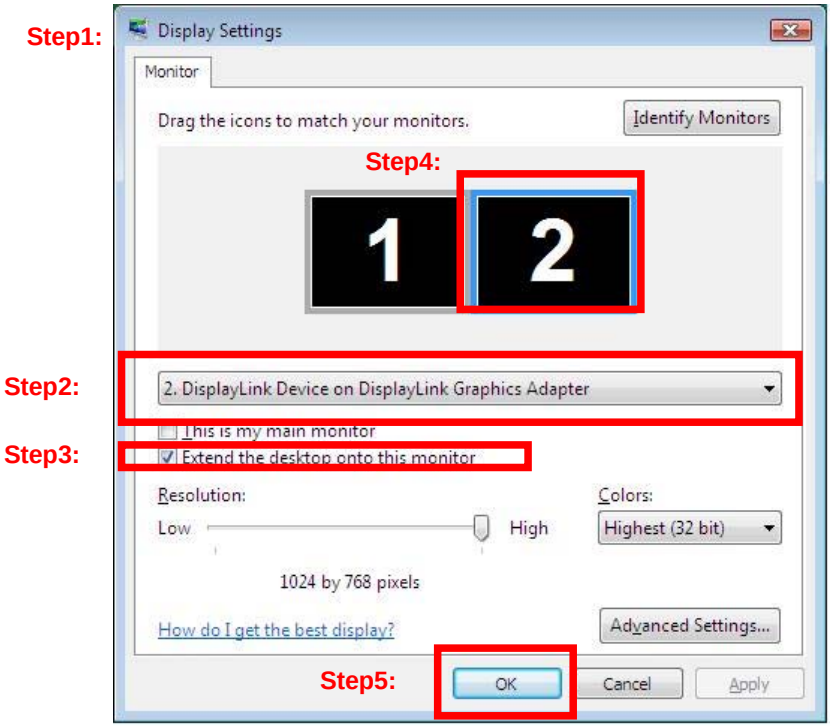
     Windows Vista**: Personalize** => **Display Settings**

     Windows XP/2000: **Properties** => **Settings**
  2. Choose the option with the string "**DisplayLink Graphics Adapter**" in the Display drop-down menu.
  3. Windows 7**:** Choose "**Extend these displays**" in **Multiple Displays** drop-down menu

     Windows Vista**:** Click the **Extend the desktop onto this monitor** box

     Windows XP/2000: Click the **Extend my Windows desktop onto this monitor** box
  4. Drag the icons in the window at the top of the screen to match the physical arrangement of your primary monitor and add-on monitor. The add-on monitor connected to the ENMUV-2 may be identified as either "2" or "3", depending on your computer, although there may not be a total of 3 screens connected.

5. Then click **OK**.



After setting, you can drag and drop your open windows over to your second monitor. However, some applications may not support display on the extended desktop.

Cursor disappeared?

If you're in extended mode but the add-on monitor is not connected, the desktop still pans to the add-on monitor and it's possible that your cursor has moved to the extended desktop so that you cannot find it on the primary display. To solve the problem in such a case, connect the add-on monitor to the ENMUV-2 or keep moving your mouse to try or unplug the ENMUV-2 first to restore the cursor.

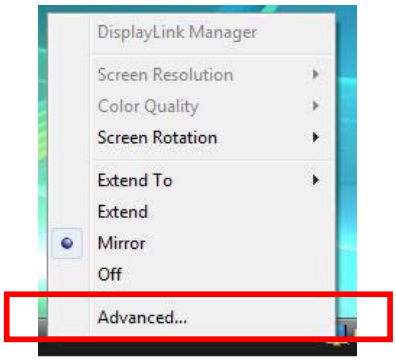
Video and DVD Playback in Extended Mode

On Windows Vista with extended mode, it's suggested that you run video or DVD playback programs on your primary monitor instead of the add-on monitor to ensure the playback performance.

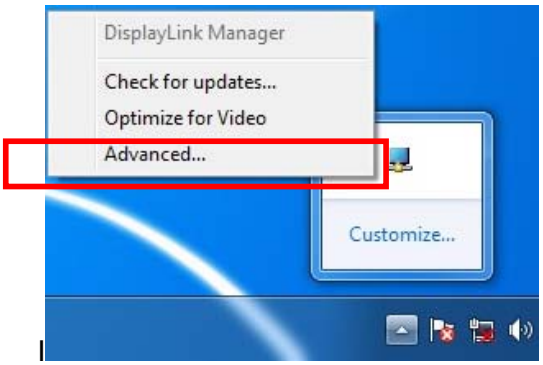
3.1.2 Mirror Mode

In this mode, your original screen (the primary display) will be mirrored to the add-on monitor.

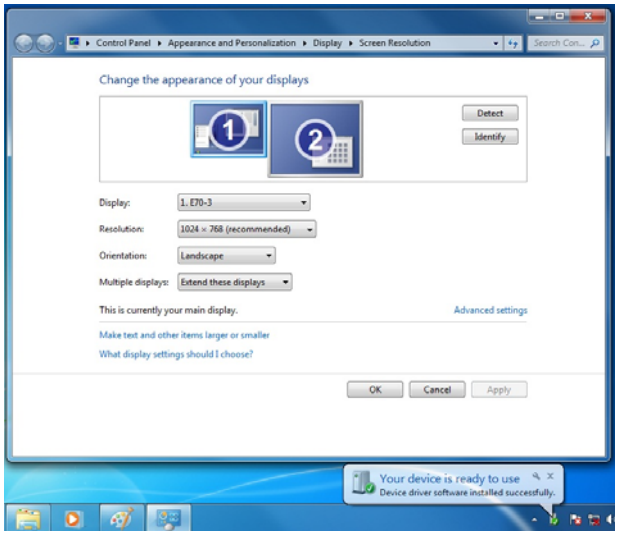
- Easy Setting
  Click on the **DisplayLink Device** icon and select **Mirror**.



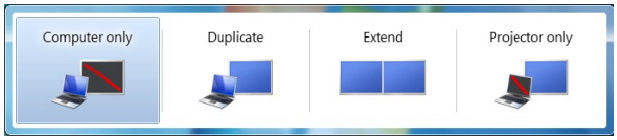
Windows 7:



1. Click the **arrow sign** and right click the **DisplayLink Device** icon to select **Advanced**.



2. You can change Display Properties of the add-on monitor here.



3. Use **Windows Key+P** to display a menu (and cycle through it) to choose **Duplicate**.

- Manual Setting
  In mirror mode, the ENMUV-2 will automatically select the settings (screen resolution, color quality and refresh rate) for the add-on monitor. You can manually adjust the settings as required. However, the settings of the add-on monitor are limited by that of the primary monitor. For example, even though your add-on monitor supports a resolution of up to 1920x1080, you can only configure it to use 1280x1024 due to the primary monitor only supports a resolution of up to 1280x1024.

If you change the video output to mode and then want to switch back to mirror mode, follow these steps:

1. Position the mouse anywhere on your computer desktop, right-click and select
   Windows 7**:** Choose **Screen Resolution**
   Windows Vista**: Personalize** => **Display Settings**
   Windows XP/2000: **Properties** => **Settings**
2. Choose the option with the string "**DisplayLink Graphics Adapter**" in the **Display** drop-down menu.
3. Windows 7**:** Choose "**Duplicate these displays**" in **Multiple Displays** drop-down menu
   Windows Vista**:** Uncheck the **Extend the desktop onto this monitor** box
   Windows XP/2000: Uncheck the **Extend my Windows desktop onto this monitor** box
4. Click **OK** to close the settings screen.

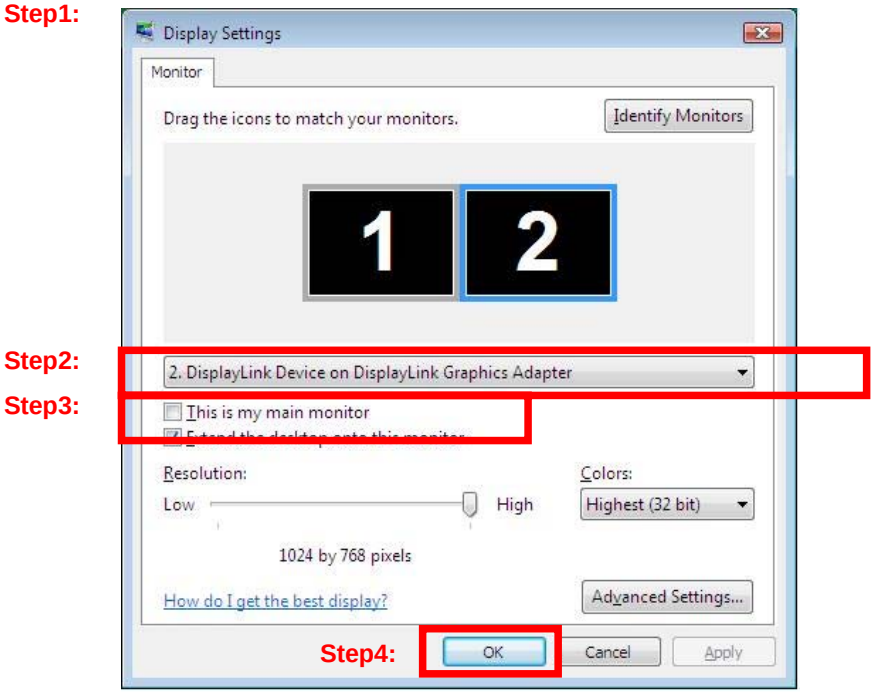
3.1.3 To Be The Primary Display Monitor

You can change the add-on monitor to be the primary display monitor:

1. Position the mouse anywhere on your computer desktop, right-click and select
   Windows 7**:** Choose **Screen Resolution**
   Windows Vista**: Personalize** => **Display Settings**
   Windows XP/2000: **Properties** => **Settings**
2. Choose the option with the string "**DisplayLink Graphics Adapter**" in the **Display** drop-down menu.
3. Windows 7/ Widows Vista : Click the **This is my main monitor** box
   Windows XP/2000: Click the **Use this device as the primary monitor** box

	On some PCs and laptops it is necessary to disable the main display (i.e. uncheck the **Extend the desktop onto this monitor** or **Extend my Windows desktop onto this monitor** box for the main display) as part of the same settings change.

4. Then click **OK**.



After PC reboots, the add-on monitor will be the primary display monitor. Once the add-on monitor is unplugged, the main monitor will back to be the primary display monitor again.

3.2 Adjusting The Resolution, Color Depth and Refresh Rate

There are three components that make up the screen mode:

- **Resolution:** In common usage, this refers to the number of pixels displayed on screen horizontally and vertically.
- **Color Depth:** This defines the number of different colors that can be shown on the screen at the same time.
- **Refresh rate:** Measures the speed that the entire screen is rescanned. Higher frequencies reduce flicker.

Some monitors advertise they supported modes through the video connector. If this is the case, the ENMUV-2 identifies the supported modes from the monitor. If not, ENMUV-2 will choose a set of common screen modes for the monitor.

The resolutions and refresh rates available to the user through Windows are a comprise of the support from the following elements:

- The ENMUV-2
- The primary monitor and the add-on monitor
- The primary video card on your computer and installed drivers

Therefore, for example, if your monitor doesn't support a resolution of 1920x1080, then 1920x1080 is not possible even you are using ENMUV-2 with 1920x1080 support. This ensures that the monitor cannot be put into an unsupported mode, which might damage it.

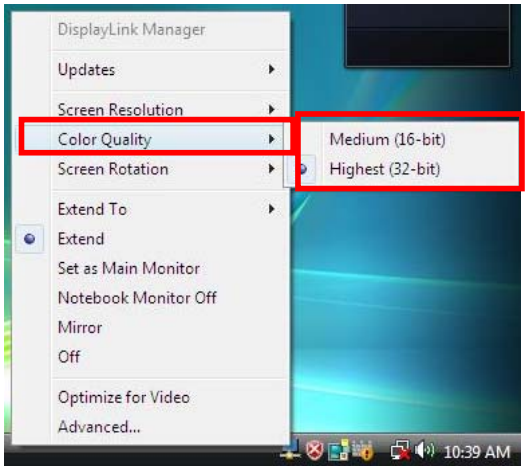
If cloning the primary display, the video component will try to use the preferred monitor mode. In some cases, this may not be the most appropriate mode for the cloned desktop. It is recommended that the primary display resolution be changed to closer match the default resolution of the add-on monitor.

See the software supports the modes below.

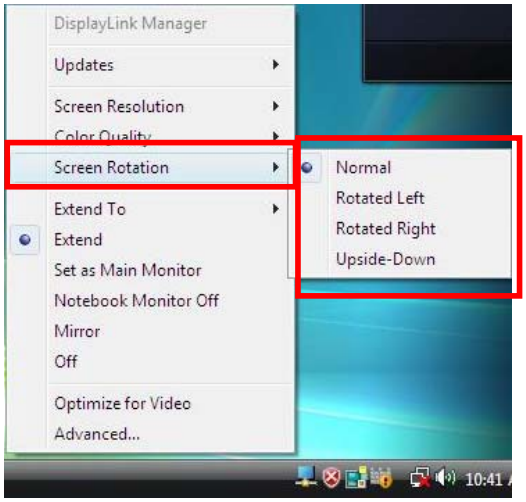
Color Depth / Resolution	Name	Refresh rates available at 16 bit color quality	Refresh rates available at 32 bit color quality
640x480	VGA	60 72 75 85	60 72 75 85
800x600	SVGA	56 60 72 75 85	56 60 72 75 85
1024x768	XGA	60 70 75 85	60 70 75 85
1280x720	720p	60	60
1280x768	WXGA+	60 75 85	60 75 85
1280x800	WXGA	60	60
1280x1024	SXGA	60 75 85	60 75
1366x768	WXGA+	60	60
1400x1050	SXGA+	60 75 85	60 75 85
1600x1200	UXGA	60	60
1680x1050	WSXGA+	60	60
1920x1080	1080p	60	60

To configure the three components (resolution, color depth and refresh rate) of a screen mode, follow these steps:

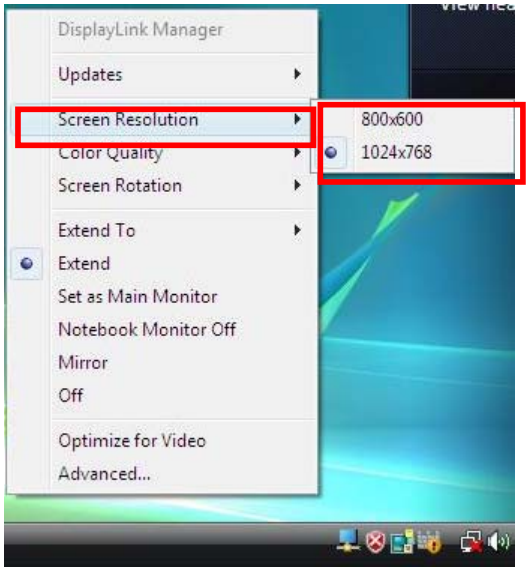
- Easy Setting
  Click on the **DisplayLink Device** icon and then you can choose **Color Quality**, **Screen Rotation**, or **Screen Resolution** to modify them.



Color Quality：There are two kinds of color quality, the Medium (16-bit) and the Highest (32-bit).



Screen Rotation：There are four kinds of screen rotation, the Normal, Rotated Left, Rotated Right and Upside-Down



Screen Resolution：The resolution will be depends on your computer setting, resolution support of monitor and else…

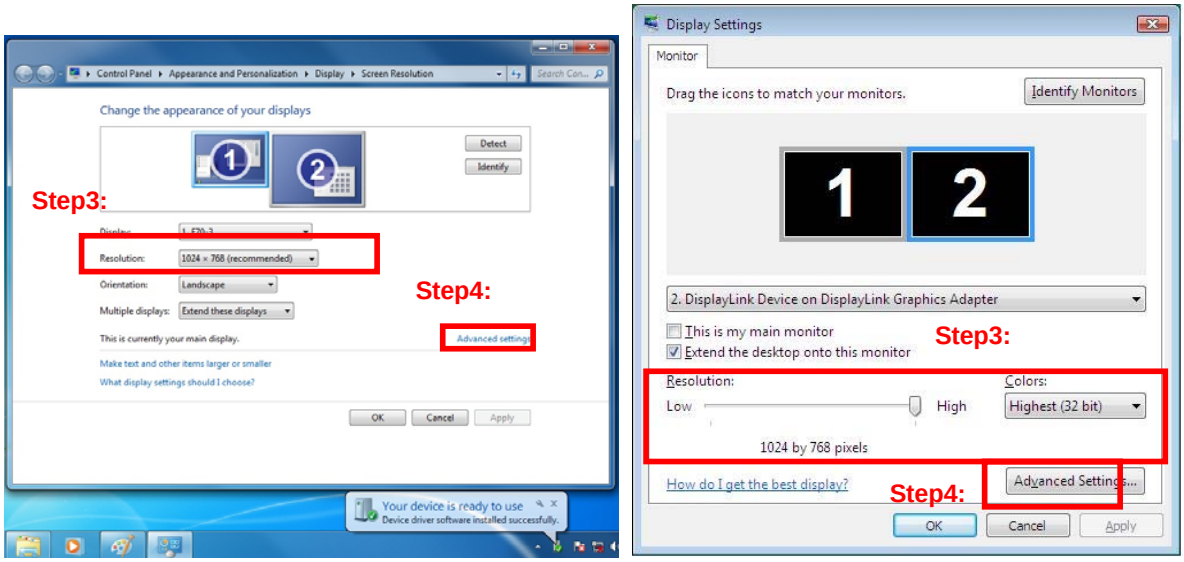
- Manually Setting

1. Position the mouse anywhere on your computer desktop, right-click and select

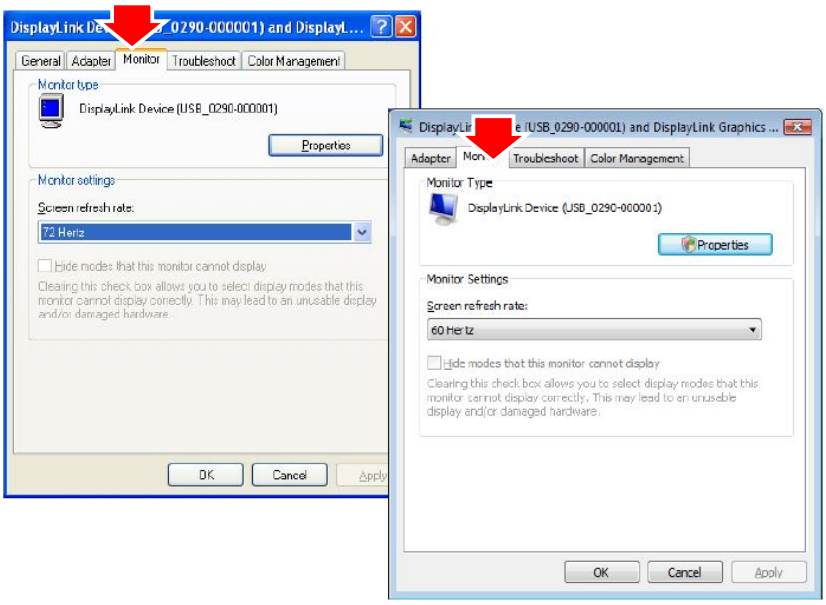
   Win 7**:** Choose **Screen Resolution**

   Vista**: Personalize** => **Display Settings**

   XP/2000: **Properties** => **Settings**
2. In the **Display** drop-down menu, select the option with **DisplayLink Graphics Adapter**.
3. To adjust screen resolution or color quality, slide the **Resolution** bar.



4. To change the refresh rate, click **Advanced…** and then click **Monitor**.



5. Select a refresh rate from the **Screen** refresh rate drop-down list and then click **Apply**.
6. Click **OK** to close the settings screen.

3.3 Standby and Hibernate, Shut Down and Restart

After the ENMUV-2 was connected with a computer and an external monitor, the display of external monitor will be blank when the computer goes into standby or hibernate mode. When the computer returns to an active state, the display of external monitor keeps the same settings as it before. If the add-on monitor is in extended mode and the computer requires a login after standby or hibernate mode, the login dialogue window appears in the primary monitor, not the external monitor.

If the computer is shut down, restarted and logged in, the add-on monitor returns to the same mode as it shutdown before.

3.4 Disconnecting the ENMUV-2

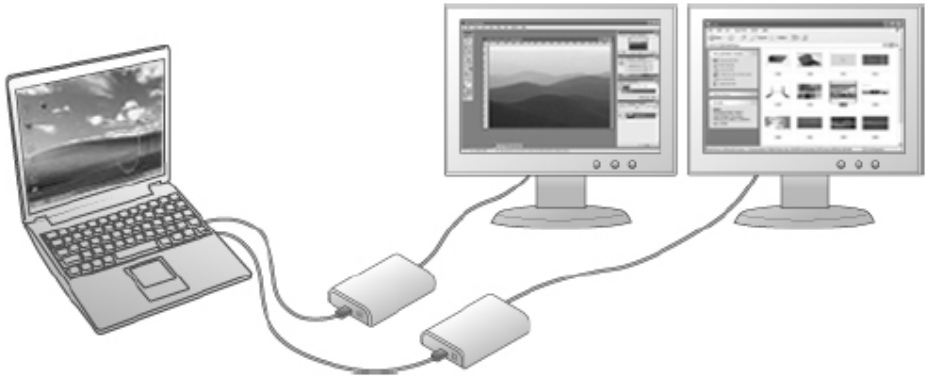
When you unplug the ENMUV-2 from the computer, and the add-on monitor goes blank. Then all the windows and icons will move back to primary monitor.

If you plug it again, the add-on monitor returns to the same mode as it unplug before. But windows and icons that were previously on the add-on monitor will not be moved back.

3.5 Using Dual ENMUV-2

You can use 2 ENMUV-2 simultaneously:

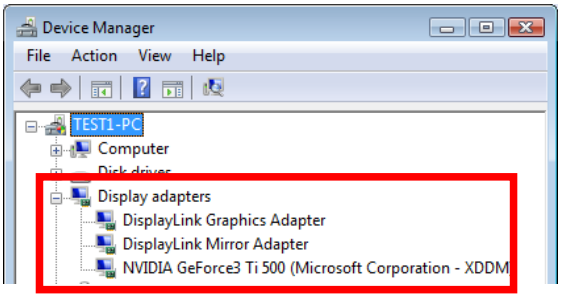
1. Install the driver as described in the "Chapter 2: Installation and connect the first ENMUV-2 to your computer.
2. Then plug the second a ENMUV-2 to your computer. The system will automatically complete the installation.



Both of them support extended and mirror modes. The only exception is on Windows Vista XDDM mode. In XDDM mode, only the first connected ENMUV-2 can be configured to use extended mode. The second ENMUV-2 is forced to use mirror mode. In the display settings dialog box, you will only find that "**…DisplayLink Graphics Adapter"** is configurable.

You can make sure display video driver mode:

1. Double click **Computer** on your desktop. Then choose **Device Manager**.
2. Then expand the **Display adapters** item.



	What is Vista XDDM mode? XDDM refers to Windows XP Driver Mode. It is a video card driver mode used in some legacy computers that running the new generation Vista OS. It provides an interface similar to Windows XP user Interface on Vista and one of its characteristics is that it doesn't support Windows Aero interface.

3.6 Verifying the Driver Installation

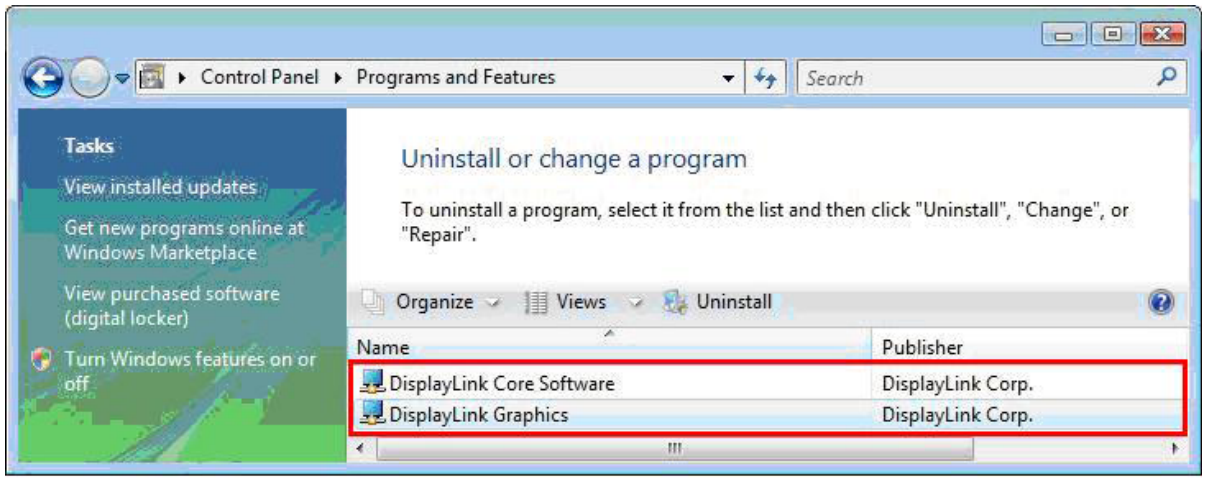
To verify your ENMUV-2 driver installation, please launch **Device Manager** by the steps below:

1. Open the **Control Panel**.
2. Then

   Win 7**:** Double-click **Uninstall a Program**

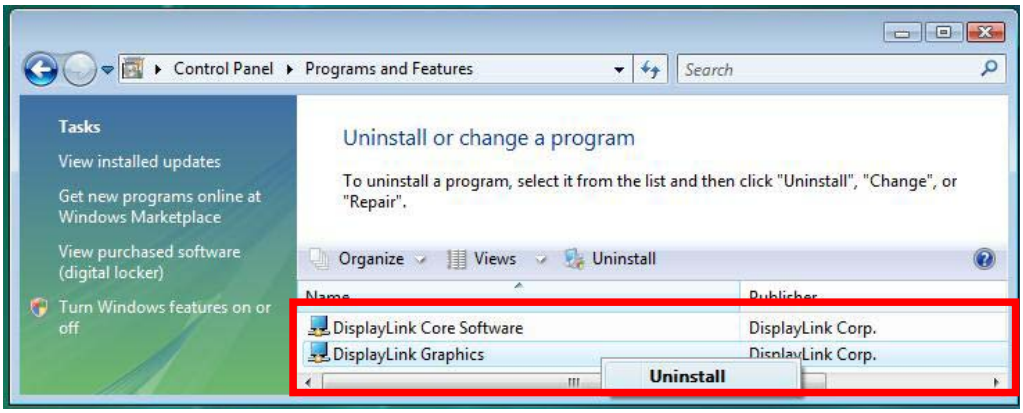
   Vista**:** Double-click **Programs and Features**

   XP/2000: Double-click **Add or Remove Programs**
3. A string similar to **DisplayLink Core Software** and **DisplayLink Graphics** should be displayed.
4. If there is a question or exclamation mark next to that item, then the driver is not properly installed. Please delete the item, unplug the ENMUV-2 and repeat the installation steps.

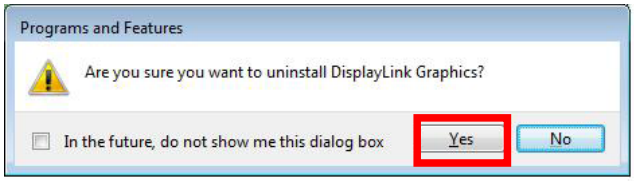


3.7 Uninstall the ENMUV-2 and Driver

1. Open the **Control Panel** and double-click **Programs and Features** on Vista or **Add or Remove Programs** on XP/2000.
2. Select **DisplayLink Graphics** or **DispalyLink Core Software** and then click **Uninstall** or **Remove**.

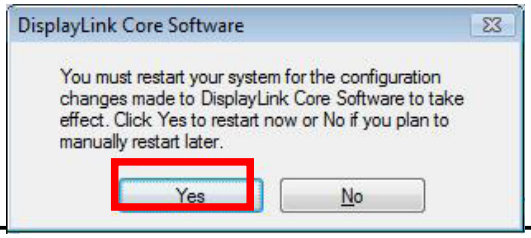


3. Click **Yes** to confirm the removal.


Programs and Features
Are you sure you want to uninstall DisplayLink Graphics?
In the future, do not show me this dialog box
Yes
No

4. During the removal process a couple of DOS windows will pop up.

5. Click **Yes** to restart your computer and then unplug the ENMUV-2 now.


DisplayLink Core Software
You must restart your system for the configuration changes made to DisplayLink Core Software to take effect. Click Yes to restart now or No if you plan to manually restart later.
Yes
No

Chapter 4: Q&A

Q1: The display on the add-on monitor is blank. Why is it?

Answer:

If the monitor power LED is green, wait a moment for the monitor to show the video as sometimes it takes time for the add-on monitor to show the video.

You can also reboot your system to try again. Also make sure the computer is not on a standby or hibernation mode, which will lead the add-on monitor to be blank.

If the monitor power LED is red, check if the connection is properly made. If problem still exists, uninstall the driver, unplug the ENMUV-2 and reinstall the driver to try again.

Q2: The add-on monitor is flickering.

Answer:

This is usually caused by a low refresh rate. To solve this problem:

- In mirror mode, increase the refresh rate of the main monitor. This will in turn increase the refresh rate of the add-on monitor.
- In extended mode, increase the refresh rate of the add-on monitor.

Q3: When I play MPEG file by Windows Media Player on the extended monitor, how come the display becomes abnormal when I switch it to full screen mode?

Answer:

If your system is Windows XP SP1, we suggest you upgrade it to SP2 to solve this problem.

Q4: When playing the video in full screen mode, the motion is not smooth.

Answer:

Try the following tips:

- Reduce the resolution of the display to 640x480 or 800x600.
- Use the ENMUV-2 in extended mode.
- Terminate any other CPU intensive applications running on the computer.

If you still have issues playing media content on the ENMUV-2, try the following steps:

- As some media players require DirectX hardware support to correctly operate, try a different media player which requires less DirectX support.
- Drag the media player to the add-on screen and close the player. Restart the player and it should open on the add-on monitor. Now try playing the media file again.
- Try reducing the hardware acceleration level of the primary display (NOT the add-on monitor) to levels 1, 2 or 3 and restarting the media player. The hardware acceleration can be found by right-clicking on your desktop and click **Properties** => **Settings** => **Advanced** => **Troubleshoot**. Some players use this setting even when playing on a different display.
- The video playback may be unusual when the add-on monitor is mirroring the primary display and there is another extended screen connected to the computer. The extended screen must be disabled before the content will be correctly cloned to the add-on monitor.

Q5: In extended mode, the add-on monitor appears to have a black border around the desktop.

Answer:

This happens when the resolution used by the add-on monitor is larger than the resolution used by the primary monitor. To solve this problem, configure the add-on monitor to use the same resolution as the primary monitor.

Chapter5: Regulatory Compliance

FCC Conditions

This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received. Including interference that may cause undesired operation.

Important! Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment. Use an approved phone set.

CE

This equipment is in compliance with the requirements of the following regulations: EN 55 022: CLASS B

WEEE Information

For EU (European Union) member users: According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.